

### In the Claims

1. (Original) Apparatus with a therapeutic catheter for therapeutic treatment of vessels in a patient, in which the catheter has a distal end section that can be inserted into a patient vessel, and a fluid channel (116, 416) for gaseous or liquid fluid under pressure, which extends from the proximal end section to the distal end section or from the proximal end section to the distal end section and back again to the proximal end section and has means on the distal end section (108, 432) to treat a patient vessel (12), characterized by the fact that sensor or measurement devices (114, 414) are connected to the fluid channel (116, 416) on the proximal end section, which, depending on one or more physical values or value changes of the fluid as a function of external effects on the fluid on the distal end section of the catheter, generate an optically or acoustically recognizable signal or an optically or acoustically recognizable measured value, which is a gauge for an operating person of the catheter of the situation that the fluid is exposed to in the environment of the distal end section of the catheter.

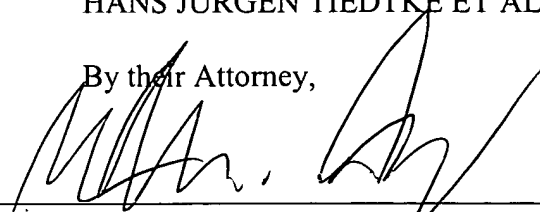
2 – 10 (Cancelled).

Respectfully submitted,

HANS JURGEN TIEDTKE ET AL.

By their Attorney,

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